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L8 ANSWER 1 OF 4 CAPUIS COPYRIGHT 2003 ACS on STM
ACCESSION NUMBER: 2000:909685 CAPUIS
DOCUMENT NUMBER: 134:56837
HELDOS FOR the production of long-chain substituted estratriene and their application in the preparation of nedicaments
INVENTOR(5): Sauer, Gerhard; Bohlmann, Rolf; Heinrich, Nikolaus;
KrOll, Jorg; Zorn, Ludwig; Fritzmeier, Karl-Heinrich;
Hegele-Hartung, Christa; Hoffmann, Jens; Lichtner, Rosemarie Schering A.-G., Germany Ger. Offen., 16 pp. CODEN: GWXXEX PATENT ASSIGNEE (S): SOURCE: DOCUMENT TYPE: Patent LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE 20001228 20010104 20010510 DE 19929715 A1 A2 A3 DE 1999-19929715 19990624 WO 2000-EP5969 20000626 WO 2001000652 WO 2001000652 WO 2001000652

W: AK, AL, M, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DIX, M, EZ, ES, FI, GB, GD, GE, GH, GM, ER, ES, FI, GB, GD, GE, GH, GM, ER, HU, ID, IL, LI, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MY, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SS, SI, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZV, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RV: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZV, AT, BE, CH, CY, DE, DX, ES, PI, FR, GB, GR, LE, IT, LU, MC, NL, PT, SE, BF, BJ, CT, CG, CI, CM, GA, GN, GV, ML, MR, NE, SN, TD, TG

AU 2000061524

AS 2001031

A 20020320

EP 2003-50349

TP 200350349

TP 200350349

TP 200350349

TP 200350349

TP 2003106330

A 20020131

DE 1999-19929715 A 19990624

WO 2000-ES65

VD 2000-ES65 IE, SI, LT, LV, FI, RO

JP 2003503419 T2 20030128 JP 2001-507059 20000626

NO 2001006330 A 20020131 NO 2001-6330 20011221

LIORITY APPLN. INFO:

DE 1999-19929715 A 19990624

WO 2000-EP5969 W 20000626

HER SOURCE(S):

MARPAT 134:56837

This invention describes the synthesis of new antiesterogenic 11.beta. long-chain substituted estratriene [I, R3 = H, alkyl, R3'C(O), R3' = H, alkyl, ph; R1 = ABZR20; A = bond, phenylene, phenyleneoxy; B = alkylene, alkynylene, alkynylene; 2 = NR21; R21 = alkyl, R20 = H, alkyl, alkenyl, -alkynylene, alkynylene; 2 = NR21; R21 = alkyl, R20 = H, alkyl, alkenyl, -alkynylene, alkynylene; 2 = NR21; R21 = alkyl, R20 = H, alkyl, alkenyl, -alkynylene; 0 = 37 aryl = Ph, 1-naphthyl, 2-naphthyl, heteroaryli, DO(CH2)-Crnf2rnl; r = 1 - 5; Z0021 with N = C5-C6-heterocycle; R20R2) with N = heterocycle etc.; R17 = H, R17'C(O); R17' = H, alkyl) for the product of medicaments. Thus, I (R3, R17 = H, R11' = FSC2(CR12)35(CR12)31MMC)(CR12)5 was prepd. from epoxyestrene (II) via reaction with 1-bromo-5-tert-butyldinethylsilyloxypentane, aromatization, chlorination and amination with methyl(3-[(4,4,5,5,5,5-pentafluoropentyl)sulfanyl)propyl)amine. Formulations of I (no data) are claimed. OTHER SOURCE(S): ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN study, unclassified); SPN (Synthetic preparation); T BIOL (Biological study); PREF (Preparation); USES (U (prepn. of long-chain substituted effratriene and the prepn. of medicaments) 314019-26-6 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-(5-[methyl{3-[(CA INDEX NAME)] Absolute stereochemistry. Rotation (CH2) 314019-27-7 Estra-1,3,5 pentafluoro (CA INDEX N ,4,5,5,5-11.beta.,17.beta.)- (9CI) pentyl) ti AME) o)propyl)a (CH2) 3 (CH2 314019-29-9 CAPLUS Estra-1, 3, 5(10)-triene/3,17-diol, 11-[5-[{3-[(2-pyridinylaethyl)sulfiyy]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME) Absolute stereochemist

Ansver 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) study, unclassified); RCT (Reactant); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of long-chain substituted estratriene and their application in the prepn. of sedicaments)
314019-28-8 CAPLUS
Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[(2-pyridiny)]]]); Pyridiny [methyl]] (CA INDEX NAME) Absolute stereochemistry. Rotation (+). (CH2) 3 93,17-diol, 11-{5-[methyl[3-{{[4-yl]methyl]thio]propyl)amino]pentyl]-, (9CI) (CA INDEX NAME) (trid try. Rotation (+). Absolute (CH2) 3 314019-26-6P 314019-27-7P 314019-29-9P 314019-31-3P 314019-58-4P 314019-59-5P 314019-60-8P 314019-61-9P 314019-63-3P 314019-66-4P 314019-66-6P 314019-68-6P 314019-68-6P 314019-67-5P 314019-78-7P 314019-79-7P 314019-80-7P 31401 RL: BAC (Biological activity or effector, except adverse); BSU (Biological ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN 314019-31-3 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[{[4-[trifluoromethyl]phenyl]methyl]sulfinyl]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME) 314019-58-4 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(8,8,9,9,9-pentafluorononyl)amino)pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME) Absolute stereochemistry. (CH2) 7

> 314019-59-5 - CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(eethylnonylamino)pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

314019-60-8 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-{methyl(9,9,10,10,10-pentefluorodecyi)amino]pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX

Absolute stereochemistry.

(CH2) 8

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) NAME)

Absolute stereochemistry.

RN 314019-61-9 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[6-{methyl(8,8,9,9,9-pentafluorononyl)amino]hexyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-62-0 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[6-[nethyl(9,9,10,10,10-pentafluorodecyl)amino]hexyl)-; (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-63-1 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methylamino)pentyl]-,

L0 ANSYER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued),11,11-heptadecafluoroundecyl)methylamino]pentyl]-, (l1 beta.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-68-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5/[methyl(3,3,4,4,5,5,6,6,6-nonafluorohexyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute Stereochemistry.

RN 314019-69-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-{5-[methyl(7,7,8,8,8-pentafluorooctyl)amino]pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

RN 314019-70-0 CAPUS
CN Estra-1,3,5(10) itiene-3,17-diol, 11-[6-[methyl(7,7,8,8,8-pentafluorooctyl/amino]bexyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSVER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-65-3 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(4,4,5,5,5-pentafluoropentyl)amino]pentyl, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-66-4 CAPLUS
CW Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-67-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-{(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) Absolute stereochemistry.

RN 314019-71-1 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methyl(7,7,8,8,9,9,10,10,10-nonafluorodecyl)aminojpentyl]-, (11.beta-,17.beta-)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 314019-73-3 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-le-heptadecaf[uorotetradecy]]methylamino]pentyl]-,
(11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued

RN 314019-74-4 CAPLUS
CN Estra-1,35(10)-triene-3,17-diol, 11-[5-[(3,4,4,5,5,5-hexafluoro-2-pantenyl)methylaminolpentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 314019-75-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[3,4,4,5,5,6,6,7,7,8,8,8dodecafluoro-2-octenyl)methylamino]pentyl]-, (11.beta.,17.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued

Absolute stereochemistry.

RN 314019-80-2 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[2-(4-methylpenyl)ethyl]amino]pentyl]-, (11.bets.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-81-3 CAPLUS
CN Estra-1, 3, 5(10)-triene-3, 17-diol, 11-[5-[[2-(4-ethoxyphenyl)ethyl]methylmino]pentyl]-, (11.beta., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-82-4 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(3-phenylprogyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 314019-77-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(3-phenoxypropyl)amino]pentyl]-, (11-beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-78-8 CAPLUS
CN Estrá-1,3,5(10)-triene-3,17-diol, 11-{5-[methyl[3-(p)Enylmethoxy)propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA , 1805K NAME)

Absolute stereochemistry.

RN 314019-79-9 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-{(4,4,5,5,5-pentafluoropentyl)oxy]propyljaminojpentyl]-, (11.beta.,17.beta.)- (9CI)

L0 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued Absolute stereochemistry.

RN 314019-83-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-(3-pyridinyl)propyl]amino[pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-84-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-(4-methylphemyl)propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

RN 314019-85-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(3-(4-chlorophenyl)propyl]cethylamino]pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

314019-86-8 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[[3-(4-ethoxphenyl)propyl]methylaminolpentyl)-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

314019-87-9 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(4-methylpentyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI (CA INDEX NAME)

Absolute stereochemistry.

314019-88-0 CAPLUS Estra-1,3,5(10)-trieng-3,17-diol, 11-[5-[methyl(3,4,4,5,5,6,6,6-octafluoro-2-hexenyl]amino]penyyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L8 MISVER 2 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
11

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2774989	A1	19990820	FR 1998-1959	19980218
ED 2774000	91	20000217		

FR 2774989 Al 19900820 FR 1998-1959 19980218
FR 2774989 Bl 20000317
FR 1998-1959 19980218
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
MARPAT 131:170644
AB Estradiol peptides E-D-A wherein A represents estradiol I (R1, R2 = independently H, alkyl, alkenyl, arylcarbonyl, arylalkylcarbonyl, R3 = H, bond), D represents acyl, ester, anido, aminoalkylidene, peptide; E represents peptide, dolastatin-15 II (Re = amidoalkoxy, arylalkylideneamino) were prepd. as antitumor and cytotoxic agents. Thus, peptide III was prepd. and tested in vitro for its antitumor and cytotoxic activities (ECS0 = 6.58-1.2 nM).

IT 239117-54-58 239117-35-69 239117-56-79
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified), SPN (Synthetic preparation), USES (Uses)
(prepn. of estradiol peptides as antitumor and cytotoxic agents)
RN 239117-54-5 CAPLUS
CN L-Proline, N.M-cdimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-, (15)-1-[([25]-2-[(4-[(2-[(1].beta.,17.beta.)-3,17-dihydroxyestra-1,3,5(10)-trien-11-y]ethyl amino]-4-caxobutoxy) methylhopphinylloxy)phenyl pnethylpropyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

late stereochemistry.

314019-90-4 CAPLUS Estra-1,3,5[10]-triene-3,17-diol, 11-{5-{methyl[2-[4-{trifluoromethyl]phenoxy]ethyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

PAGE 1-B

239117-55-6 CAPLUS
L-Proline, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-,
(1S)-1-[(2S)-2-[(4-[(4-[(4-[(11.beta.,17.beta.)-3,17-dihydroxyestra1,3,5(10)-trien-11-yl]butyl]aminol-4-oxobutoxy]methylphosphinyl]oxy]phenyl
methyl-2-5-dihydro-3-methoxy-6-oxo-IR-pyrrol-1-yl]carbonyl]-2methylpropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

239117-56-7 CAPLUS
L-Proline, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-,
[15]-1-[[25]-2-[[4-[[6-[[2-[(11.beta.,17.beta.)-3,17-dihydroxyestra1,3,5[10]-trien-11-yl]ethyl]amino]-1,6-dioxohexyl]oxylphenyl]methyl]-2,5dihydro-3-methoxy-5-oxo-1H-pyrrol-1-yl]carbonyl]-2-methylpropyl ester
(SCI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L8 ANSVER 3 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:435821 CAPLUS
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CORPORATE SOURCE: INSERM Unite 439, Montpellier, 34090, Fr.

SOURCE: Journal of Medicinal Chemistry (1997), 40(14),

2217-2227

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB With the aim of developing a new series of steroidal affinity labels of the estrogen receptor, six electrophilic 11.beta.-Et (C2), 11.beta.-Bu (C4), or 11.beta.-decyl (C10) derivs. of estradiol bearing

11.beta.-terainal electrophilic functionalities, i.e. bromine (C4), (methylsulfonylloxy (C2 and C4), bromoacetamido (C2 and C4), and (p-tolylsulfonylloxy (C2 and C4), bromoacetamido (C2 and C4), and (p-tolylsulfonylloxy (C2 and C4), bromoacetamido (C2 and C4), and (p-tolylsulfonylloxy (C10) were synthesized. The range of their affinity consts. for binding the estrogen receptor ws 0.4-37% that of estradiol; the order of increasing affinity (i) relative to the 11.beta.-alkyl arm was Et < Bu and (ii) relative to the electrophilic functionalities was bromoacetamido < bromine < (methylsulfonyl)oxy. Regardless of the conditions used, including prolonged exposure of the receptor to various pH levels (7-9) and temps. (0-25.degse.), the extent of receptor affinity labeling by the 11.beta.-Et and 11.beta.-Bu compds., if any, was under 101. This was in sharp contrast to results obtained using 11.beta.-(tosyloxy)decyllestradiol which labeled from 601 to 901 of the receptor hormone-binding sites with an EC50 of apprx.10 nM. Estrogenic and antiestrogenic activities of the compds. were detd. using the MVLN cell line, which was established from the estrogen-responsive nummary tumor NCT-7 cells by stable transfection of a recombinant estrogen-responsive luciferase gene. The two 11.beta.-Et compds. were mainly estrogenic, whereas the three 11.beta.-Bu compds. were not compromised by interaction with the estrogen receptor and the phylosylland phylos

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

PAGE 1-B

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) study, unclassified); PRP (Properties); PSN (Synthetic preparation); THU (Therapeutic usel) B10L (Biological study); PREP (Preparation); USES (Uses)
(prepn. of estradiol 11.beta.-n-alkyl derivs. as steroidal affinity labels of the estrogen receptor)
191486-88-1 CAPMS
Acetanide, 2-bromon-N-[2-[(11.beta.,17.beta.)-3,17-dihydroxyestra-1,3,5(10)-trien-11-yl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

191487-03-3 CAPLUS
Acetamide, 2-bromo-N-[4-[(11.beta.,17.beta.)-3,17-dihydroxyestra-1,3,5(10)-trien-11-yi|buty1]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

191486-87-OP 191487-02-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
{prepn. of estradiol 11.beta.-n-alkyl derivs. as steroidal affinity labels of the estrogen receptor)
191486-87-O CAPLUS
Acetanide, N-[2-[(11.beta.,17.beta.)-3,17-bis[[(1,1-disethylethyl]dinethylsily]]oxy]estra-1,3,5(10)-trien-11-yl]ethyl]-2-bromo-(9CI) (CA INDEX NAME)

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

191487-02-2 CAPLUS Acctamide, N-[4-[(1).beta.,17.beta.}-3,17-bis{[(1,1-disethylethyl]dimethylethyl]dimethyleilyl]oxy]estra-1,3,5(10)-trien-11-yl}butyl}-2-bromo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
134411-65-7P 134411-66-6P
RL: SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of, as drug)
134411-65-7 CAPLUS
Estra-1,3,5(10)-triene-11-pentanamide, N-butyl-3,17-dihydroxy-,
(11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

134411-66-8 CAPLUS Estra-1,3,5(10)-triene-11-pentanamide, N-butyl-3,17-dihydroxy-N-methyl-, (11.beta.,17.beta.) - (9C1) (CA INDEX NAME)

Absolute stereochemistry.

L8 ANSWER 4 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
1111E:
115:256464
1991:656464 CAPLUS
1111E:
115:256464
1991:656464 CAPLUS
1991:66646 CAPLUS
1991:66646

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PAT	ENT	NO.			DATE	APP	LICATION	NO.	DATE
	EP	3841	142		A1	19900829	EP	1990-4004	93	19900222
	EP	3841	142		B1	19931229				
	_						3, 0	R, IT, LI	, LU,	NL
	FR	264	3638		A1	19900831	FR	1989-2384		19890224
	FR	264	3638		81	19910614				
	HU	550	32		A2	19910429	ΗU	1990-273		19900125
	HU	207	341		В	19930329				
							ZΑ	1990-1356	5	19900222
	AT	993	20		E	19940115	AT	1990-4004	93	19900222
	ES	206	2431		Т3			1990-4004		
	CA	201	0826		AA	19900824	CA	1990-2010	1826	19900223
	ΑU	905	0072		A1	19900830	AU	1990-5007	12	19900223
					B2	19921210				
	JP	022	58194		A2	19901101	JP	1990-4138	13	19900223
	JΡ	3009	9169		B2	20000214			-	
	us	514	9696		Ä	19920922	US	1990-4844	124	19900223
	PL	162	151		B1	19930930	PL	1990-2839	941	19900223
								1990-1015		
					Ä	19940301	US	1992-8754	160	19920429
	us	570	7982					1993-6873		
PRIOR	LITY	AP	PLN.	INFO.				9-2384		19890224
- /								0-400493		
								0-484424		19900223
								0-10323		19900814
							 .,,		-	

US 1930-484424 A3 19900223
FR 1990-10323 A 19900814
US 1991-745289 B1 19910814
OTHER SOURCE(S):

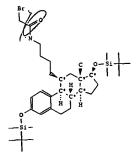
CASREACT 115:256664 MARPAT 115:256664
BT The title compds. [Ir R, R1 = H, (substituted) alkyl or NRR1 = (substituted) heterocyclyl: R2 = OR, acyloxyr: R3 = H, (substituted) alkyl; or RRR1 = (substituted) heterocyclyl: R2 = OR, acyloxyr: R3 = H, (substituted) alkyl; or RRR1 = 0.000 Acyloxyr: R3 = H, (substituted) alkyl; or RRR1 = 0.000 Acyloxyr: R3 = H, (substituted) alkyl; alkenyl; alkynyl; or RRR3 = O. X = CR2, acyloxyr: R3 = H, (substituted) alkyl; alkenyl; alkynyl; or RRR3 = O. X = CR2, acyloxyr: R3 = H, (substituted) alkyl; R4 = H, slkyl]; having affinities for receptors of hormones, e.g., estrogen, androgen, propesterone, and therefore useful as inhibitors of hormone-dependent tumors and many other allments, were prepd.
Estradienone II [RS = OR] [prepd. in several steps from epoxyestrenedione III and p-He3CSIMe2O(CH2)8CGHBr) was amidated with HDMeBu to give II (RS = NNBBU), which was enol-esterified with AcBr and the product hydrolyzed to give I [R = He, R1 = Bu, X = CGH4, Y = (CH2)7, Z = bond, R2 = OR, rings A and B = Q1, R3 = R4 = H]. This had an ICSO of 0.04 mm.M against the growth of mammary tumor cells.

=> d all 1-4

ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

TR 2003 BELISTEIN CDS MDL on STN

7842637
N-(4-(3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Mcyclopenta<a>phenanthren-11-yl>-butyl>-2hron-acetanide
N-(4-(3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Mcyclopenta<a>phenanthren-11-yl>-butyl>-2brons-acetanide
CJ6 M62 Br N OJ Si2
692.97
15224, 3798, 3777, 1155
Stereo compound
isocyclic
6729739
7453813
6-13
1998/04/30
1998/05/04 Beilstein Records (BRN): Chemical Name (CN): Autonom Name (AUN): Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LM):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTID):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD):



Field Availability:

Code	Name	Occurrence

BRN	Beilstein Records	1

L9 ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

nued)
Reactant BRN (.RBRN):
Reactant (.RCT):

7842637
N-c4-<3,17-bis-(tert-butyl-dimethyl-sianyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopentaca>phenanthren-11-yl>-butyl>-2-bromo-acetamide
7833530

Product BRN (.PBRN): Product (.PRO):

Product (.PRO): 7833530
Product (.PRO): 2-bromo-N-<4-{3,17-dihydroxy-13-methyl-7,0,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-y1}-butyl>-actamide
No. of React. Details (.NVAR): 1

Reaction Details:

Reaction RID (.RID): 4804487.1
Reaction Classification (.CL): Preparation
Reagent (.ROT): aq. ACOH
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 20 hour(s)
Other Conditions (.COND): Acbient temperature
Note(s) (.COM): Yield given
Reference(s):
1. Lobaccaro, Caroles Pons, Jean-Francoiss Duchesne, Marie-Josephes Auzou,
Gilless Pons, Michels et al., J.Med.Chem., CODEN: JMCMAR, 40(14),
<1997>, 2217-2227; BABS-6075367

L9 ANSVER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

CN Chemical Name 1
AUN Autonomanae 1
HF Molecular Formula 1
FV Formular Veight 1
LN Lawron Number
FS File Segment
CTYPE Compound Type
CONSID Constitution ID
TAUTID Tautomer ID
BSO Beilstein Cita*

ED Entry Ost*

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

Reaction: RX

Reaction ID (.ID); Reactant ERN (.RBRN); Reactant (.RCT);

Product BRN (.PBRN): Product (.PRO):

4781161
7838449, 506167
4-3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta<a>phenanthren-11-yl>butylanine, bromoacetic acid
7842637
N-<4-<3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta<a>phenanthren-11-yl>-butyl>-2bromo-acetamide

No. of React. Details (.NVAR):

Reaction Details:

Reaction RID (.RID): 4781161.1
Reaction Classification (.CL): Preparation
Reagent (.RCT): 1-ethyl-3-<3-(dimethylamino)propyl>carbodi inide hydrochloride, pyridine tetrahydrofuran
Temperature (.TI): 30 min 40 Cel Solvent (.SOL): Time (.TIM): Temperature (.T): Reference(s):

Reference(a):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

Reaction: RX

Reaction ID (.ID): 4804487

ANSWER 2 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): Chemical Name (CN):

Autonom Name (AUN):

TR 2003 BELISTEIN CDS MDL on STN

7840634
N-<2-<3,17-bis-(tert-butyl-dimethylmilanyloxy)-13-methyl7,6,9,11,12,13,14,15,16,17-decahydro-GHcyclopenta(a>phenanthren-11-yl>-ethyl>-2bromo-acetanide
N-<2-<3,17-bis-(tert-butyl-dimethylmilanyloxy)-13-methyl7,6,9,11,12,13,14,15,16,17-decahydro-GHcyclopenta(a>phenanthren-11-yl>-ethyl>-2bromo-acetanide
C34 H58 Br N OJ Si2
G64.91
15230, 3798, 3777, 1155
Stateo compound
isocyclic
G727235
7451996
6-13
1998/04/30
1998/05/04

Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LM):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTID):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD):

Name	Occurrence

Beilstein Records	1
Chemical Name	1
Autonomname	1
Molecular Formula	1
Formular Weight	1
	Beilstein Records Chemical Name Autonomname

10/018,429 Page 10

Lawson Number
File Segment
Compound Type
Constitution ID
Tautomer ID
Beilstein Citation
Entry Date
Update Date This substance also occurs in Reaction Documents: RX RXREA RXPRO Reaction Documents Substance is Reaction Reactant Substance is Reaction Product Reaction: RX 4781159
7836551, 506167
2-<3,17-bis-(tert-butyl-dimethyl-silanylony)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta<a>phenanthren-11-yl>ethylamine, bromoacetic acid
7840634
N-<2-<3,17-bis-{tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta<a>phenanthren-11-yl>-ethyl>-2bromo-acetamide Reaction ID (.ID): Reactant BRN (.RBRN): Reactant (.RCT): Product BRN (.PBRN): Product (.PRO): No. of React. Details (.NVAR): Reaction Details: Reaction RID (.RID): 4781159.1
Reaction Classification (.CL): Preparation
Reagent (.RCT): 1-ethyl-3-<3-(dimethylamino)propyl>carbodi inide hydrochloride, pyridine tatrahydrofuran Time (.TIH): 30 min 40 Cel Solvent (.SOL): inide hydrochlotue, pyrioline to tetrahydrofuran
Time (.TIM): 30 min 40 Cel
Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

Reaction: RX

Reaction ID (.ID): Reactant BRN (.RBRN): Reactant (.RCT):

4803841 7840634 N-<2-<3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-

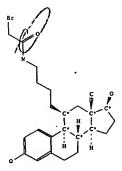
L9 ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): Chemical Name (CN):

7833530

Autonom Name (AUN):

7833530
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-yl)-butyl>-actamide
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-yl)-butyl>-actamide
C24 H34 Br N O3
464.44
15224, 1155
Stereo compound
isocyclic
6717041
7450857
6-13 Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LN):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTID):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD): 1998/04/30



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	
CN	Chemical Name	i
AUN	Autonomname	ī
KF	Molecular Formula	1
FV	Formular Veight	1
LN	Lavson Number	2
FS	File Segment	1

L9 ANSWER 2 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

cyclopenta<a>phenanthren-11-yl>-ethyl>-2-bromo-acetamide 7829440

7829440
2-bromo-N-c2-(3,17-dihydroxy-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GHcyclopenta(a)phenanthren-11-yl)-ethyl>acetamide Product BRN (.PBRN): Product (.PRO):

No. of React. Details (.NVAR):

Reaction RID (.RID): 4803841.1
Reaction Classification (.CL): Preparation ac. ACM
Reagent (.NCT): ac. ACM
Solvent (.SOL): tetrahydrofuran
Time (.TIM: 20 hour(s)
Other Conditions (.COND): Abbient temperature
Note(s) (.COM): Yield given
Reference(s): 1. Lobaccaro, Carole: Pons, Jean-Francois; Duchesne, Marie-Josephe; Auxou, Gilles: Pons, Michel; et al., J.Med.Chem., CODEN: JNCMAR, 40(14), <1997>, 2217-2227; BABS-6075367

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ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN
L9 ANSWER
(Continued)
CTYPE
CONSID
TAUTID
BSO
                              Compound Type
Constitution ID
Tautomer ID
Beilstein Citation
Entry Date
Update Date
Infrared Spectrum
Melting Point
Nuclear Magnetic Resonance
Pharmacological Data
     This substance also occurs in Reaction Documents:
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RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	i

Melting Point: Value | Solvent (MP) | (.SOL) (Cel) | |Ref.| Note |diethyl ether|1

Reference(s):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

Notes(s): 1. 50

Nuclear Magnetic Resonance: NMR

Description (.KV): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): disethylsulfoxide-d6
Temperature (.T): 32 Cel
Reference(s):
1. Lobaccaro, Caroles Pons, Jean-Francois: Duchesne, Marie-Josephes Auzou,
Gilless Pons, Michels et al., J.Med.Chem., CODEN: JNCNAR, 40(14),
<1997>, 2217-2227, BABS-6075367

Description (.KV): Spin-spin coupling constants
Solvents (.SOL): dimethylsulfoxide-d6
Temperature (.T): 32 Cel
Note(s) (.COM): HH-1H.
Reference(s): 11-1H.
Labaccaro, Caroles Pons, Jean-Francois; Duchesne, Marie-Josephes Auzou,
Gilless Pons, Nichel: et al., J.Med.Chen., CODEN: JMCMAR, 40(14),
<1997>, 2217-2227; BABS-6075367

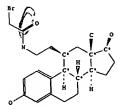
Infrared Spectrum:

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L9 ANSWER 3 OF 4 BEILSTEIN COPY
(Continued)
Descript | Solvent | Ref. | Note
ion | | | |
(.KW) | (.SOL) | |
            ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN
  Bands | KBr
Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367
Notes(s):
1. 3535 - 1675 cm**(-1)
Pharmacological Data:
PHARM
Note(s) (.COM):
                                                                                               binding affinity to the estrogen receptor, estrogen antagonist activity, IC50: 320 nM (MYLM cell line); antiproliferative activity (ability to promote DNA accumulation from MYLM)
            Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227; BABS-6075367
Reaction:
RX
                                                                                               4804487
7842637
N-(4-(3,17-bis-(tert-butyl-dimethyl-silanyloxy)-13-methyl-
7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta(a>phenanthren-11-yl>-butyl>-2-bromo-acetanide
7833530
2-bromo-N-(4-(3,17-dihydroxy-13-methyl-
            Reaction ID (.ID):
Reactant BRN (.RERN):
Reactant (.RCT):
                                                                                             7833530
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H cyclopenta<a>phenanthren-11-y1)-butyl>-acetanide
1
            Product BRN (.PBRN):
Product (.PRO):
            No. of React. Details (.NVAR):
Reaction Details:
            Reaction RID (.RID): 4804487.1
Reaction Classification (.CL): Preparation ag. Acolf Solvent (.SOL): tetrahydrofuran Time (.TIM): 20 hour(s)
Other Conditions (.COND): Ambient temperature Note(s): (.CON): Yield given Reference(s): Leans-Francoist Duchages
            Asierence(s):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou,
Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14),
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L9 ANSWER 4 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): 7829440
Chemical Name (CN): 2-bromo-N-<2-(3,17-dihydrosy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-Gircyclopentacaphenanthren-11-yl)-ethyl>-acetamide
Autonom Name (AUN): 2-bromo-N-<2-(3,17-dihydrosy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-Gircyclopentacaphenanthren-11-yl)-ethyl>-acetamide
Molec. Formula (MF): C2 H30 Br N 03
Molecular Weight (MW): 436.39
Lawson Number (LM): 5-lie Segment (FS): 6-115-66
Tautomer 1D (TAUTID): 6-13
Entry Date (DED): 1998/04/30
Update Date (DUPD): 1998/05/04



Field Availability:

Code	Name	Occurrence

BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FV	Formular Veight	1
LN	Lavson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1

L9 ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued) <1997>, 2217-2227, BABS-6075367

=> d ibib ab fqhit 1-7

INVENTOR(S):

DOCUMENT TYPE:

PATENT ASSIGNEE(S): SOURCE:

PATENT NO.

DE 19929715

PRIORITY APPLN. INFO.:

MSTR 1

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

(Continued)

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L11 ANSYER 1 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 135:16357 MARPAT
TITLE: Steroid compounds for steroid receptor binding assays
Schoonen, Wilhelmus G. E. J.
AKZO Nobel N.V., Neth.
SCHOCKE: AKZO Nobel N.V., Neth.
COUDEN: PIXXO2

DOCUMENT TYPE: Patent
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:
                                       PATENT NO.
                                                                                                                                                  KIND DATE
                                                                                                                                                                                                                                                                                       APPLICATION NO. DATE
                                      WO 2001040805
VO 2001040805 Al 20010607 WO 2000-EP11803 20001124

V: US

RY: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NJ,

PT, SE, TR

EP 1238285 Al 20020911 EF 2000-998893 20001124

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, FI, CY, TR

EP 1999-204036 19991130

WO 2000-EP11803 30001124

AB The invention provides a compd. having binding affinity for a receptor and comptising a steroid skelaton in its mol. structure of hich compd. is a Bu-A-Y-K-Ste (Bu = sterically bulky structure) An -NH, -O, -C(0), -S-1 Y = branched or unbranched, satd. or ungald. chain of 2 to 18 atoms of carbon, which chain is optionally interrupted by replacements of carbon atoms by oxygen, nitrogen or sulfur stoms/and is optionally substituted with keto, hydroxyl, sulfhydryl or haloden groups; X - C or arylene group linked to the steroid skeleton with a carbon or an oxygen atoms Stegroup with a steroidal skeleton with a carbon or an oxygen atoms Stegroup with a steroidal skeleton with a optional double or triple bond; that between Y and X is optional double bond). The invention also provides for a method for deth. of binding detween a compd. having a mol. group L in its mol. structure, in which method, L is the group Ste as defined above and R is a steroid receptor. An esyfadiol estrogen receptor ligand labeled with a slophycocyanin (steroid-APC) was prepal, and assayed for binding with the alpha-estrogen receptor by time-resolved fluorescence resonance energy transfer assays.
                                                                                                                                             A1 20010607
                                                                                                                                                                                                                                                                                       WO 2000-EP11803 20001124
      g1---G3---g9
                                                                AKCEC (1-) C, BD (0-) D (0-) T> (50)
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L11 ANSWER 2 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
TITLE: MARPAT Methods for the production of long-chain substituted
estrattiene and their application in the preparation
of medicaments

WU 2001000652 A2 20010104
WU 2001000652 A2 20010104
WU 2001000652 A2 20010104
WU 2000-EF\$569 20000626
WI: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DR, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, HT, LU, LV, MA, MD, MG, MK, MN, MY, MX, NO, NZ, PL, PT, RO, BU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZY, AM, AZ, BY, KG, GM, KE, LS, MY, MZ, SD, SL, SZ, TZ, UG, ZY, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, AU 2000061524 AS 20010131, AV 2000-61524 20000626
R: AT, BE, CR, DE, DK, ES, FR, GE, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
JP 2001503419 TZ 20030128
NO 200106330 A 20020131
This **CONTROL **C

IE, SI, LT, LV, FI, RO

JP 2003503419 T2 20030128

NO 2001006330 A 20020131

NO 2001-607059 20000626

NO 2001006330 A 20020131

NO 2001-6330 20011221

DE 1999-19929715 19990624

WO 2000-EP5969 20000626

This invention describes the synthesis of new antiesterogenic 11. beta. long-chain substituted estrátriene [I; R3 = H, alkyl, R3'C(0); R3' = H, alkyl, R1 = ARZRO: A*-bond, phenylene, phenylenexy; B = alkylene, alkenylene, alkynylene; Z = NR21; R21 = alkyl; R20 = H, alkyl, alkenyl, -alkynyl, DCFn+1; D = aryl, alkylene, alkenylene, alkynylene; D = 2-7; R20 = DO(CH2) q-aryl, q = 0 f 3; aryl = Ph, 1-naphtyl, 2-naphtyl, alkeroaryl; DO(CH2) q-aryl, q = 0 f 3; aryl = Ph, 1-naphtyl, 2-naphtyl, arkeroaryl; DO(CH2) cTn72n+1; r = 1 - 5; R20R21 with N = C5-C6-beterocycle; R20R21 with N = heterocycle etc.; R17 = H, R17'C(0); R17' = H, slkyl] for the product of medicaments. Thus, I [R3, R17 = H; R11 = F5C2(CH2)35(CH2)31(Me)(CH2)5] was prepd. from epoxyestrene (II) via reaction with 1-bromo-5-tert-butyldisethylsiyloxypentane, aromatization, chlorination and smination with methyl(3-[44,4,5,5,5,5-pentafluoropentyl]sulfanyl)propyl)smine.

A1 20001228 A2 20010104 A3 20010510

of medicaments
Sauer, Gerhard, Bohlmann, Rolf; Heinrich, Nikolaus;
Kroll, Jorgy Zorn, Ludwig; Fritzmeier, Karl-Heinrich;
Hegele-Hartung, Christa; Hoffmann, Jens; Lichtner,
Rosemarie
Schering A.-G., Germany
Ger. Offen, 16 pp.
CODEN: GWXXEX
Patent
German

DE 1999-19929715 19990624 WO 2000-EP5969 20000626

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claim 1
or addition salts or solvates
also incorporates claim 12
REFERENCE COUNT:
                                               THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 2 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
                                                                                          (Continued)
            on
alkylene<(4-6)>
alkylamino<(1-3)>
OH
             clain 1
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LII ANSVER 1 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

(Continued)

10/018,429 L11 ANSWER 3 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:
131:170644 MARPAT
1TILE: Preparation of estradiol peptides as antitumor and cyctotoxic agents
cyctotoxic agents
Jouin, Patrict Poncet, Joels Busquet, Magalis Atassi,
Ghamens Pierre, Alain
Adia et Compagnia, Fr.
SOURCE: COUNT FROMBL
DOCUMENT TYPE: Demande, 59 pp.

COUNT FROMBL
Patent
Patent
French
Patent
French
Frenc DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE
FR 2774989 A1 19990820
FR 2774989 B1 20000317 APPLICATION NO. FR 2774989 Al 19990820 FR.1998-1959 19980218
FR 2774989 Bl 20000317 FR 1998-1959 19980218
FRIGHTY APPLM. INFO:

independently H, alkyl, alkenyl, acylcarbonyl, acylalkylcarbonyl, R3 = H, bondl, D represents acyl, ester, amido, aminoalkylidene, peptide; E represents peptide, dolastatin-15 II (R4 = amidoalkoxy, arylalkylideneamino) were prepd. as antitumor and cytotoxic agents. Thus, peptide III was prepd. and tested in vitro for its antitumor and cytotoxic activities (ECSO = 6.58-1.2 nM). g12-g10-g1 - 32 мн 6811 and pharmaceutically acceptable acid or base addition salts claim 1 L11 ANSVER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

(ALL HITS ARE ITERATION INCOMPLETES)
ACCESSION NUMBER:

121:109397 MARPAT

1TITLE:
Preparation of ester derivatives of 4-azasteroids as steroid 5.alpha.-reductase inhibitors.

Witzel, Bruce E.; Rasmusson, Gary H.; Tolman, Richard L.; Yang, Shu Shu

Marck and Co., Inc., USA

POT Int. Appl., 66 pp.

CODEN: PIXXO2

DOCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM. COUNT:
PATENT INFORMATION:

2

PATENT NO. KIND DATE APPLICATION NO. DATE

WS 9323041 AI 19931125 WD 1993-U\$4771 19930519

W: AU, BB, BG, BR, CA, CZ, FI, HU, JF, KR, KZ, LK, NG, NN, HY, NO, NZ, PL, NO, RU, SD, SK, UA, US

RY: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GM, ML, MR, NE, SN, TD, TG

AU 934255 AI 19931213 AU 1993-42525 19930519

AU 668181 E2 19960426 EF 1993-911362 19930519

EF 649306 B1 20010110

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE JF 07508039 T2 19950907 JF 1993-50839 19930519

EF 649306 AI 199501011 AI 1993-911362 19930519

EF 649306 B1 20010115 AI 1993-911362 19930519

TI 198601 E 20010115 AI 1993-911362 19930519

US 5610162 A 19970311 US 1994-338573 19941117

ORITY APPLM. INFO: US 1992-886022 19920520

WO 1993-US4771 19930519

Title compds. [IJ a, b = single bonds, R2 = H J or a = single bond, b = double bond, and R2 = null; R1 = H, aryl, alkyl, aralkyl, R3 = H, He, Et, CM, NHZ, Skep n = 0-10, X = 0, S, R4 = (substituted) alkyl, aryl, heterocyclyl, cycloalkyl, anino, CM, etc.] were prepd. as inhibitors of 5.alpha-reductase and isoentypes thereof. The compds. are useful for the treatment of hyperandrogenic disease conditions and diseases of the skin and scalp (no data). Thus, 20-hydroxy-4-aethyl-5.alpha. 4-azapregnan-3-one, 11-ethylthioundecanoic acid, DMP, and DCC were estirred in ClifCi2 at coos teeps. to give 20-[11-(ethylthio)undecanoyloxyl-4-methyl-5.alpha.-4-azapregnan-3-one, 11-ethylthioundecanoic acid, DMP, and DCC were estirred in ClifCi2 at coos teeps. to give 20-[11-(ethylthio)undecanoyloxyl-4-methyl-5.alpha.-4-azapregnan-3-one, 11-ethylthioundecanoic acid, DMP, and DCC were estirred in ClifCi2 at coos teeps. to give 20-[11-(ethylthio)undecanoyloxyl-4-methyl-5.alpha.-4-azapregnan-3-one, 11-ethylthioundecanoic acid, DMP, and DCC were estirred in ClifCi2 at coos teeps. to give 20-[11-(ethylthio)undecanoyloxyl-4-methyl-5.alpha.-4-azapregnan-3-one, 11-ethylthioundecanoic acid, DMP, and DCC were estirred in ClifCi2 at coos teeps. to give 20-[1 PRIORITY APPLN. INFO.:

ITERATION INCOMPLETS

L11 ANSWER 3 OF 7 MARPAT COPYRIGHT 2003 ACS on STN STE: and isomers (Continued)

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
65 - NULL / G40 / alkylene<EC (1-10) C, DC (0) M3>
(50 (1-) 66)
66 - Ph / naphthyl / alkyl<(1-3)> (50 G28) / (5C Me)
67 - H / Me / Et / OH / NH2 / SMe
68 - 0 / 5 O / S
Ph (SO) / naphthyl (SO) /
HycEC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +,
RC (1), RS (1) MS (1) X7> (SO) / 204 / 206 /
HycEC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHERS (SO) /
Cycloalkyl<(3-10)> (SO) / 68 / OH / 71 2 --G12 ₇Q---G39 ₂G29=0 ₂G29=0 - OH / F / Cl / Br / I / alkoxy<(1-8)> /
alkenyl<(2-6)> / 32 / SH / 65 / 63 / 48 / 52 / Ph (SO) /
naphthyl (SO) / HycC (1-3) Q (0-) N (0-) O (0-) S (0)
OTHERQ, CH (-1) +, RC (1), RS (1) H5 (1) X7> (SO) / 209 /
211 / HycC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER> (SO) /
cycloalkyl<(3-10)> (SO) / 55 32 (0)-G11 4816-G39 52 - G12 5C(0)G17-C(0)G18 63 - OH 65 - OH 2839=0 2⁶29=0 G11 = 36 / OH / 46 G12 -G12 48--G15

- H / alkyl<(1-8)> (SO (1-) G13) / Ph (SO) /
naphthyl (SO) / HycEC (1-3) Q (0-) N (0-) O (0-) S (0)
OTHERD, CH (-1) +, RC (1), RS (1) M5 (1) X7> (SO) / 214 /
216 / HycEC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHERO (SO)

L11 ANSVER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN - OH / alkoxy<(1-3)> / CN / 39 / 43 / NO2 / F / Cl /
Br / I / NH2 / alkylamino<(1-4)> / dialkylamino<(1-4)> /
Ph (SO) / naphthyl (SO) / Hy<EC (1-3) Q (0-) N (0-) O (0-)
S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / 219 /
221 / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER>

3G(0)-G14 4G38-C(0)-G14 2G30=0

-G15

- alkyl<(1-8)> (SO) / Ph (SO) / naphthyl (SO) - S / S(O) / SO2 - NH / 59

-G19

G18

딹

= alkyl<(1-8)> / CH2Ph / cyclohexyl = alkylcarbonyl<(1-20)> (SO (1-) G10) / 30

38(0)-69

- 25 / (SC 26 / 174 / 178 / 193 / 202) / (EX 245 / 330)

He HC G22 194-C(0)[CH2] S-Pr-i H2C O-C(0)G25

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

H2C-[-CH2]5-Bu-t H2C-[-CH2]5-Et H2C-[-CH2]5

G25 - Me / Bu-t / 184 / 187

HC-(-CH2)Me H2C-(-CH2)S-Pr-1

G26 = Bu-t / Me / 228

o-C6H4Et

= Bu-t / Pr-i / Me = Ph / naphthy1 = Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> (50) / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C, RS (0-) ES (1-) ES (0-) E7 (0) OTHER> (50) HY<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C, AR (1-), BO (6-) N, CH (-1) +, RC (2), RS (0-) ES (1-) ES (0-) E7 (0) OTHER> = Me / Bu-t / 235

H2C-[-CH2]S-Pr-i

- 249 / 268 / 282 / 283 / 285 / 294 / 303 / 306 / 314 / 320 / 323 / CH-CHPh

P-C6H4G34 H2C-(-CH2)81

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS On STN

193 C (0)-NH CH2-Ph H2C-0-C (0)-NH G26 H2C-0-C (0)-G32

- 76 / 224 / 234 / 239

0-C(0)-G23 0-C(0)-NH-G27 H2C-0-C(0)-G31

H2C-1 CH2 O-C (0)-NH-Bu-t

- 79 / 83 / 85 / dodecyl / 93 / Bu-t / 94 / 98 / CH2CH2CO2H / 106 / 110 / 126 / 134 / 143 / 144 / 147 / 150 / 154 / 158 / 169

H2C-(-CH2)3-Et H2C-OEt H2C-(-CH2)3-Pr-i H2C-(-Me

H2C-CH2CH=CH2
H2C-CH-CH2CH=C-Ne H2C-CH2CCOOMe

OMe H2C-p-C6H4Pr-i H2C-S-Pr-i H2C-CH2JS-Pr-i

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

i-Pr-p-C6HgCHp-C6H4Pr-i H2C-CH-C1

- 2-furyl / 251 / cyclohexyl / 256 / OCOMe

G34 = Bu-i / OEt G35 = 333 / 358 / 373 / 378

 $^{\rm H_{2}C}_{333} - \circ - c(0) G36 \quad ^{\rm 3}_{3} - c(0) - n - c_{6}H_{4} - NH - c_{0}CH_{3} \\ ^{\rm 3}_{16} - c(0) \left[CH_{2}\right]_{16}^{\rm He}$

= 337 / pentadecyl / 339 / 350 / 356

P-C6H4G37 F2C-CF2-CF3

- NO2 / COPh
- altylene<(1-8)>
- altylene<(1-8)> (50 (1-) G13) / Ph (50) /
naphthyl (50) / By<EC (1-3) 0 (0-) N (0-) 0 (0-) S (0)
OTHERO, CH (-1) *, RC (1), RS (1) NS (1) X7> (50) / 34 / 50 /
Hy<EC (1-3) 0 (0-) N (0-) 0 (0-) S (0) OTHERO (6-) C,
AR (1-), BD (6-) N, CH (-1) *, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER> (50)

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

G40 = (1-10) CH2
G1 +G2 = NULL
G3 +G4 = NULL
DER: or pharmaceutically acceptable salts or ester
MPL: claim 1
NTE: up to one double bond in steroid moiety

```
ANSVER 5 OF 7 MARPAT COPYRIGHT 2003 ACS on STN '(Continued)

- Ak<EC (1-6) C, BD (0-) D (0-) T>

- NH

- OH

and pharmaceutically acceptable salts
claim 1

substitution is restricted
```

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L11 ANSVER 5 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
120:134926 MARPAT
TITLE: Preparation of estrogen bisphosphonates for treatment of bond diseases
INVENTOR(S): Nakamura, Toshio: Katsunata, Takashi: Yamamoto, Michihor Pharma, Japan
SOURCE: Sunitomo Pharma, Japan
Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JECKAF
LANGUAGE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COURT: 1
             DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
PATENT NO. KIND DATE

JP 05222073 A2 19930831 JP 1992-59642 19920213

PRIORITY APPLN. INFO.:

JP 1992-59642 19920213

AB The title compds. [1: E = estrogen residue: R1 = bond, alkylene: R2 = alkylene, alkenylene, alkynylene: R3 = H, alkyl: R4 = OH, alkyl: Alkoxy: Y1 = bond, O, S(O)n (wherein n = 0, 1, 2), NR5 (wherein R5 = H, alkyl); Z1 = bond, O, S, NH: Z2 = H, alkyl), alkylthio, OH, NH2], useful in treating such bone diseases as osteoporosis, are prepd. A soln. of 1.04 Buli/hexane was added to a soln. of estratriene II (THP = tetrahydro-2-pyranyl) in THF at O.degree. and stirred at room temp., to the soln. was added [CH2] 3CM=[OP(OCTMP2]] 2], and the soln. was stirred at room temp. and then acidified to pH 1 to give 964 bisphosphonate III. I at 3 mg/kg s.c. per day in mice for 3 wk gave a bone salt concn. of 120.4 .+-. 3.96 mg/cm2, vs. 103.1 .+-. 2.25 mg/cm2 for controls.
                                                                                                                                                                                                                                                                                           KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NO. DATE
                                       MSTR 1A
                                                                                                 - 303
         G1
         G3
                                                                                              - alkylene<(1-6)>
      L11 ANSVER 6 OF 7
ACCESSION NUMBER:

116:214774 MARPAT
119-Norsteroids having an amide-bearing chain in the
11-beta position, their preparation, their use as
medicines (especially antiestrogens), and
pharmaceutical compositions thereof
[INVENTOR(S):

Clausaner, Andrew Nique, Francois; Teutsch, Jean
Georges; Van de Velde, Parrick
ROUSsel-UCLAF, Fr.
Eur. Pat. Appl., 63 pp.
CODEN: EPXXEW
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

116:214774 MARPAT
19-Norsteroids having an amide-bearing chain in the
10-Norsteroids having an amide-bearing chain in the
11-beta position, their use as
medicines (especially antiestrogens), and
pharmaceutical compositions thereof
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             DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                           PATENT NO.
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A3
B1
CH, DE,
A2 1
B2 1
                                                                    PATENT NO.

EP 471612
EP 471612
FP 471612
R: AT,
FR 2665901
AT 162797
AT 162797
BY 9162
US 5916
JF 3073803
JF 3073803
AU 9182422
AU 644671
ZA 9106420
US 5707982
US 5707982
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| 19920219 | EP 1991-402214 | 19910809 | | |
| 19920513 | 19980128 | |
| 19920221 | FR 1990-10223 | 19900814 |
| 19940729 | |
| 19980215 | AT 1991-402214 | 19910809 |
| 19980401 | ES 1991-402214 | 19910809 |
| 19920215 | CA 1991-2049102 | 19910813 |
| 19940728 | HU 1991-2690 | 19910813 |
| 19941213 | JP 1991-226410 | 19910813 |
| 19941213 | 1991-226410 | 19910813 |
| 19941213 | 1991-226410 | 19910813 |
| 19940807 | 19910813 | 19940807 | 19910813 |
| 19940807 | 1994080808 | 1994080808 | 19940808 | 19940818 |
| 1994080808 | 1994080808 | 199408088 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 | 19940888 
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19920220
19931216
                                                    AU 9182422 A1 19920220 AU 1991-82422 19910814

AU 644671 B2 19931216

ZA 9106420 A 19921028 ZA 1991-6420 19910814

US 5707982 A 1998013 US 1993-68735 19930528

ORITY APPLM. INFO.: FR 1990-10223 19900814

FR 1999-2134 19890224

US 1990-444424 19900223

Twenty title steroids I [either (1) n = 1; K = 0; R17 = 0H, OZC(CH2) 2COZH

or salts; R17 = H, C.tplbond. CH; RA = He RB = iso-Pr, Bu, heptafluorobutyl; X = CH2, C6H4, OC6H4; Y = (CH2)7, (CH2)8, (CH2)5C,tplbond.C, (CH2)9C,CH2) 4th q = 5-7, (CH2)5S(0)pCH2 with p = 0-2; Z = bond; or (2) n = 1 or 2; K = 0, S; R17 = 0H, acyloxy; R17 = H, (substituted) alkyl, alkenyl, or alkynyl; or R17R17 = keto; X = CH2, arylene, OCH2, oxyarylene, thiosrylene (bound to steroid at C atom; Y = aliph. chain optionally unsatd. or interrupted by syrlene, O, S, SO, or SO2; Z = bond; RA, RB = H, (substituted) alkyl; or RARB = atoms to form (substituted) hetprocycle; addin. restrictions] were prept. as antiestrogens for treatment of hormone-dependent tumors. For example, 11. beta.—(4-hydroxyphenyl)estra-4,9-diane-3,17-dione was etherified with BulbMcCOCH2O(CH2)SDr (prepns. given), followed by isomerization to a 3-hydroxyestra-1,3,5(10)-triene, redn. of the 17-oxo group to 17.beta.—OH with NeBH4, protection of the OR groups as scatates, conversion of the amide to a thioanide with Lawesson's reagent, and deprotection, to give title compd. II. The ICSO of II for inhibiting growth of MC7-7 nammary tumor cells in vitro was 0.03 nM. A tablet formulation comprising I is given.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AU 1991-82422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19910814
             PRIORITY APPLN. INFO.:
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L11 ANSWER 6 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

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G13 DER: MPL: NTE: - alkyl<(1-8)> (SO G14)
 or salts
 claim 1
 substitution is restricted

L11 ANSWER 7 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

- OH - 88-45 90-46

= OH = CH2 = alkylamino<(1-8)> (SO (1-) G39) claim 6 Ak<(1-18)> in G36 may be interrupted by an arylene group or an oxygen atom

L11 ANSWER 7 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
115:214857 MARPAT
115:214857 MARP

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4036425	A1	19910516	DE 1990-4036425	19901115
FR 2654337	A1	19910517	FR 1989-14976	19891115
FR 2654337	B1	19940805		
SE 9003570	A	19910516	SE 1990-3570	19901109
BE 1005511	A4	19930831	BE 1990-1062	19901109
DK 9002709	A	19910516	DK 1990-2709	19901113
CA 2029940	ÄÄ	19910516	CA 1990-2029940	19901114
JP 03294229	A2	19911225	JP 1990-306374	19901114
CH 681691	A	19930514	CH 1990-3611	19901114
NL 9002492	Ä	19910603	NL 1990-2492	19901115
GB 2239798	A1	19910717	GB 1990-24862	19901115
GB 2239798	B2	19931027		
AT 9002313	Ä	19950415	AT 1990-2313	19901115
AT 400298	n	19951127		

AT 9002313 A 19950415 AT 1990-2313 19901115
AT 400298 B 19951127 FR 1989-14976 19891115
AB Biodegradable microspheres comprise the title steroids (Markush given) and copolymers of lactic acid with glycolic acid. A mixt. of 250 mL aq. 0.31 hydrolyzed PVA soln... 1 g poly(DL-lactic acid-glycolic acid). 17 g CH2C12, and 0.5 g 17. beta.-hydroxy-11. beta.-(1-(dimethylamino)phemyl)-17.alpha.-(1-propynyl)-stra-4,9-dien-3-one was emulsified, followed by stirring at 22.degree. and decreasing pressure (.gtoreq.400 mm Hg) to give microspheres, which were used for the prepn. of injections.

G1—G3

1934-1936-637-1910)--638

- 43

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=> d his

(FILE 'HOME' ENTERED AT 11:13:17 ON 03 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:13:54 ON 03 SEP 2003

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 36 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:15:38 ON 03 SEP 2003

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 11:18:15 ON 03 SEP 2003

L5 STRUCTURE UPLOADED

L6 1 S L5

L7 47 S L5 FULL

FILE 'CAPLUS' ENTERED AT 11:18:58 ON 03 SEP 2003

L8 4 S L7

FILE 'BEILSTEIN' ENTERED AT 11:21:49 ON 03 SEP 2003

L9 4 S L5 FULL

FILE 'MARPAT' ENTERED AT 11:24:19 ON 03 SEP 2003

L10 1 S L7

L11 7 S L7 FULĹ

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=> d scan

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Pyrrolidinecarboxylic acid, 2-[[[4-(trifluoromethyl)phenyl]thio]methyl]-

, 1,1-dimethylethyl ester, (2S)- (9CI)

MF C17 H22 F3 N O2 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[[[4(trifluoromethyl)phenyl]methyl]sulfinyl]propyl]amino]pentyl]-,
(11.beta.,17.beta.)- (9CI)

MF C35 H48 F3 N O3 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[methyl[3-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]propyl]amino]ethyl]phenyl]-,
 (11.beta.,17.beta.)- (9CI)

MF C35 H46 F5 N O3 S

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$$F_3$$
C $(CH_2)_3$ $(C$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanamine, N-methyl-3-[[[4-(trifluoromethyl)phenyl]methyl]thio]- (9CI)

MF C12 H16 F3 N S

$$CH_2-S-(CH_2)_3-NHMe$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Benzenethiol, 4-(trifluoromethyl)- (9CI)

MF C7 H5 F3 S

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Pyrrolidine, 2-[[[4-(trifluoromethyl)phenyl]thio]methyl]-, (2S)- (9CI)

MF C12 H14 F3 N S

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C35 H48 F3 N O2 S

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[methyl[3-[(4,4,5,5,5pentafluoropentyl)thio]propyl]amino]ethyl]phenyl]-, (11.beta.,17.beta.)(9CI)

MF C35 H46 F5 N O2 S

Absolute stereochemistry. Rotation (-).

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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IN 1-Propanamine, 3-[(4,4,5,5,5-pentafluoropentyl)thio]- (9CI)

MF C8 H14 F5 N S

 $H_2N-(CH_2)_3-S-(CH_2)_3-CF_2-CF_3$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Pyrrolidinecarboxylic acid, 2-[[[4-(trifluoromethyl)phenyl]sulfinyl]meth
yl]-, 1,1-dimethylethyl ester, (2S)- (9CI)

MF C17 H22 F3 N O3 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanamine, N-methyl-3-[(4,4,5,5,5-pentafluoropentyl)thio]- (9CI)

MF C9 H16 F5 N S

 $MeNH-(CH_2)_3-S-(CH_2)_3-CF_2-CF_3$

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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IN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[[3-[(4,4,5,5,5pentafluoropentyl)thio]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI)

MF C31 H46 F5 N O2 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C35 H46 F3 N O3 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C38 H46 F3 N O3 S

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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IN Pyrrolidine, 2-[[[4-(trifluoromethyl)phenyl]sulfinyl]methyl]-, (2S)- (9CI)

MF C12 H14 F3 N O S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Ethanethioic acid, S-(4,4,5,5,5-pentafluoropentyl) ester (9CI)

MF C7 H9 F5 O S

Acs- (CH2)3-CF2-CF3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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IN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[(4,4,5,5,5pentafluoropentyl)thio]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI)

MF C32 H48 F5 N O2 S

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Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[meth
- MF C38 H46 F3 N O2 S

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Benzene, 1-[[(3-bromopropyl)thio]methyl]-4-(trifluoromethyl)- (9CI)

MF C11 H12 Br F3 S

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[9-[(4,4,5,5,5-

pentafluoropentyl)sulfinyl]nonyl]-, (11.beta.,17.beta.)- (9CI)

MF C32 H47 F5 O3 S

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT